Ministry of Northern Development and Mines

Ontario

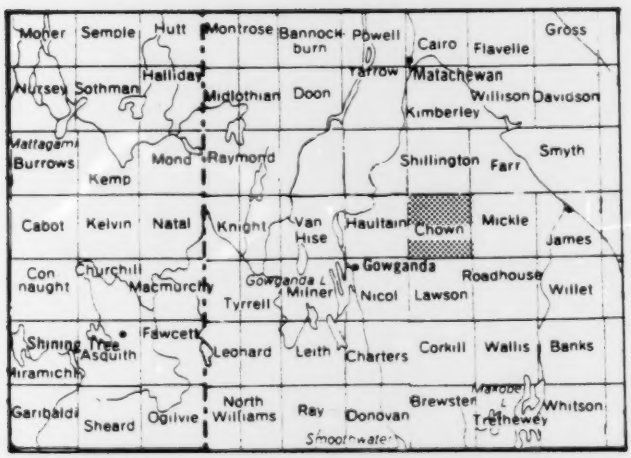
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 497

CHOWN TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO
Mineral Development Exploitation Minerale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

NTS Number 41P/10 and 41P/15

Mining Claim Map Number M-213

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Chown Township, Geological Data Inventory Folio 497; compiled by the staff of the Resident Geologist's office, Cobalt.

Original Compilation by: Patricia Anderson, November 15, 1989

Date	Page Revised	Revised by

Date	Page Revised	Revised by

CHOWN TOWNSHIP

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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ACCOMPANYING MAPS

Property Location Map - 1 map
Exploration Data Map - 1 map
Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	No	D.P.A.
3	ODM General Index; 9 Volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	Yes	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	No	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	Miscellaneous Papers: ODM & OGS	No	D.P.A.
16	ODM Geological Circulars: OGS Study Series	Yes	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	Yes	D.P.A.
18	ODM – OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	No	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Cobalt	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

- Δ anh. . . . . .Anhydrite
- Δ ank . . . . . .Ankerite
- Δ anna . . . . . Annabergite
- Δ ap. . . . . .Apatite
- Δ arg . . . . . Argentite
- Δ As . . . . . .Arsenic
- Δ asp . . . . . .Arsenopyrite
- Δ asb . . . . . .Asbestos
- Δ ba. . . . . .Barite
- Δ be. . . . . .Beryl
- Δ Bi. . . . . .Bismuth
- Δ bn . . . . . .Bornite
- Δ bran . . . . . .Brannerite
- Δ bruc . . . . . .Brucite
- Δ Cd . . . . . Cadmium
- Δ calc. . . . . Calcite
- Δ carb . . . . . .Carbonate
- Δ cel . . . . . .Celestite
- Δ cc. . . . . .Chalcocite
- Δ cp. . . . . .Chalcopyrite
- Δ ch. . . . . .Chert
- Δ clay . . . . . .Clay
- Δ Co . . . . . Cobalt
- Δ cob. . . . . Cobaltite
- Δ cb. . . . . .Columbite
- Δ Cu . . . . . .Copper
- Δ cor . . . . . Corundum
- Δ dol . . . . . Dolomite
- Δ ep. . . . . Epidote
- Δ ery . . . . . Erythrite
- Δ fel . . . . . .Feldspar
- Δ fl . . . . . .Fluorite (flurospar)
- Δ fu. . . . . .Fuchsite
- Δ gn. . . . . Galena
- Δ gt. . . . . Garnet
- Δ goe . . . . . .Goethite
- Δ Au . . . . . Gold
- Δ gf. . . . . .Graphite
- Δ gl . . . . . Gravel
- Δ gyp. . . . . Gypsum
- Δ hem . . . . . Hematite
- Δ il . . . . . .Ilmenite
- Δ Fe . . . . . .Iron
- Δ IF. . . . . Iron Formation
- Δ jas . . . . . Jasper
- Δ kaol . . . . . .Kaolinite (kaolin)
- Δ ky . . . . . Kyanite
- Δ Pb . . . . . Lead
- Δ lim . . . . . Limonite
- Δ Li. . . . . Lithium
- Δ mgst . . . . . Magnesite
- Δ mag . . . . . Magnetite
- Δ mc . . . . . Malachite
- Δ Mn . . . . . Manganese
- Δ mb . . . . . Marble
- Δ mar. . . . . Marcasite
- Δ ma . . . . . .Marl
- Δ mi . . . . . Mica
- Δ ml . . . . . .Millerite
- Δ mo . . . . . Molybdenite
- Δ Mo . . . . . .Molybdenum
- Δ mon . . . . . Monazite
- Δ ne. . . . . Nephelite (nepheline)
- Δ nc. . . . . .Niccolite
- Δ Ni. . . . . Nickel
- Δ Nb . . . . . .Niobium
- Δ Pd . . . . . .Palladium
- Δ peat . . . . . .Peat
- Δ pent . . . . . .Pentlandite
- Δ Pt. . . . . .Platinum
- Δ py . . . . . .Pyrite
- Δ pyl . . . . . Pyrochlore
- Δ pyrl . . . . . .Pyrolusite
- Δ po . . . . . .Pyrrhotite
- Δ q . . . . . .Quartz
- Δ qcv . . . . .Quartz carbonate vein
- Δ ra. . . . . .Radioactive minerals
- Δ RE . . . . . .Rare Earths
- Δ sd. . . . . Sand
- Δ sgl . . . . . Sand and gravel
- Δ ss . . . . . .Sandstone
- Δ scap . . . . . Scapolite
- Δ shee . . . . . .Scheelite
- Δ serp . . . . . Serpentine
- Δ sh. . . . . Shale
- Δ sid . . . . . Siderite
- Δ si . . . . . Silica
- Δ Ag . . . . . .Silver
- Δ sl . . . . . Slate
- Δ sm . . . . . Smaltite
- Δ sod . . . . . Sodalite
- Δ spec . . . . . Specularite
- Δ sp. . . . . .Sphalerite
- Δ spd . . . . . .Spodumene
- Δ staur . . . . . .Staurolite
- Δ stib. . . . . Stibnite
- Δ st . . . . . .Stone
- Δ talc. . . . . .Talc
- Δ Te . . . . . Tellurium
- Δ td. . . . . Tetrahedrite
- Δ th. . . . . .Thorite
- Δ Th . . . . . .Thorium
- Δ thuc . . . . . Thucholite
- Δ ti . . . . . Titanite
- Δ Ti. . . . . Titanium
- Δ tour . . . . . .Tourmaline
- Δ trap . . . . . .Trap rock
- Δ W. . . . . Tungsten
- Δ uran . . . . . Uraninite
- Δ U . . . . . .Uranium
- Δ verm . . . . . .Vermiculite
- Δ Y . . . . . Yttrium
- Δ Zn . . . . . .Zinc
- Δ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary.

CHOWN TOWNSHIP

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
	No data available as of November 15, 1988.				

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	New west Amulet Mines, Ltd., Lawson, Haultain & Chown Tps. (all work done in Lawson Tp.)							55											
2	Levega Mines Ltd., Lawson, Haultain & Chown Tps. (all work done in Lawson)							64											
3	Gowganda Silver Mines, Ltd., Nicol, Haultain, Milner, Lawson, Chown & Van Hise Tps., Group A		68 69					69 71 72				69	69						
4	Wigwam Silver Mines, Ltd., Haultain & Chown Tps.							23 25											

GDIF FORM NO. 2

CHOWN TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
	No data available as of November 15, 1988								

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	No data available as of November 15, 1988				

GDIF FORM NO. 4

CHOWN TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
3	"B" horizon soil samples	Silver by hot acid extraction	by: Warnock Hersey International Ltd. for: Gowganda Silver Mines Ltd., 1969	Chown Tp. AF, Gowganda Silver Mines Ltd.

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No data available as of November 15, 1988.			

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Cobalt.

Gowganda Silver Mines, Ltd.
Levega Mines, Ltd.
Wigwam Silver Mines, Ltd.

ODM GENERAL INDEX SEARCH

Words searched:

Chown Township
Eagle Lake
Gowganda Silver Mines, Ltd.
Longpoint Lake
Levega Mines, Ltd.
Moose Lake
Moosecall Lake
Mooseheart Lake
New West Amulet Mines, Ltd.
Sydney Creek
Wigwam Lake
Wigwam Mining Co.

Index Volume	Listing:	Report Volume	Part	Page
1	Chown Tp., Tim.	*18	1	47
	Eagle Lake, Chown tp.	*16	2	129
	Wigwam Lake, Haultain tp.			
	Rocks near	*18	2	10
	diabase	*18	2	1, 7
2	Chown Tp., Tim			
	Geology of W. part. See map 30b with	*30	6	
	Eagle Lake, Chown tp.			
	Animikean rocks. See map 30b with	*30	6	
	Moose Lake, Chown tp.			
	Animikean rocks. See map 30b with	*30	6	
	Wigwam Lake, Haultain tp.			
	Parallelism with lakes in area	*35	3	2
	Rocks	*30	1	20
	See also map 30b with	*30	3	
	Silver claims			
	See Haultain Mining Co.			
	Miller Lake Silver Star s.m.			
	Wigwam s.m.			
	Wigwam silver mine, Haultain tp.			
	Operation: (1922)	32	6	11, 80
	(1923)	*33	7	88
	(1924)	34	1	158
	(1925)	35	1	166
	non-producing	35	1	23
	producing (1923)	33	1	9

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:
Wigwam Silver Mines, Ltd.
Wilbur Lake

Index Volume	Listing:	Report Volume	Part	Page
2	Wigwam Mining Co.			
	Capital and date of charter	32	1	50
	Liquidation	* 33	7	88
	Operations. See Wigwam s.m.			
	Wigwam Silver Mines, Ltd.			
	Capital and date of charter	33	1	47
	Directors	34	1	158
3	Wigwam Silver Mines, Ltd.			
	Operations: (1926)	* 36	1	177
5	Wigwam silver mine, Haultain tp.			
	Acquired by Roy Silver Mines	60	2	96
	Operations (1951)	61	2	103
	Suspended	62	2	115
	Rocks	64	5	19
7	Chown Township, Tim.			
	Silver claims	72		143
	Wigwam silver mine, Haultain and Chown twps.			
	Operations: (1962)	72		143
	(1963)	73		148
8	Chown Tp., Timiskaming Dist.			
	Cobalt	MP11		67
	Geology of the Elk L. area	GR62		
	hematite	MP11		68
	summary of field work, 1967, by W.H. McIlwaine	MP11		67-68

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Levaga Mines, Ltd.			
	Lawson Tp., Timiskmaing Dist.			
	report on Bishop, Caleta & Keora Mines	MRC10		386
	Longpoint Lake			
	Chown & Lawson Tps., Timiskaming Dist.	GR62		3, 17, 10
	Wigwam Mine			
	Haultain Tp., Timiskaming Dist.	MP22		55
9	Gowganda Silver Mines, Ltd.			
	Haultain Tp. Timiskaming Dist			
	report on Wigwam L. Group	GR175		97
	Wigwam Lake			
	Haultain Tp., Timiskaming Dist.	GR175		36, 94, 108
	Wigwam Lake Fault			
	Haultain & Nicol Tps., Timiskaming Dist.	GR175		42-43, 108, 112
	Wigwam Lake Group			
	Haultain Tp., Timiskaming Dist.			
	report on property	GR175		97

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	Wigwam Property Haultain Tp., Timiskaming Dist. report on property	GR175		3, 110-112
	Wigwam Silver Mines, Ltd. Haultain Tp., Timiskaming Dist.	GR175		112
	*Out of Print			

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury and Temiskaming Districts, Ontario, Geological Compilation Series	ODM Map 2046	1:253 440
Pyke, D.R., Ayres, L.D. Innes, D.G.	1973	Timmins-Kirkland Lake Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts, Ontario.	ODM Map 2205	1:253 440
Easton, R.M.	1986	Geochronology of Ontario, Part 1: Compilation of Data	OFR 5592	179p.
		GEOPHYSICAL MAPS		
GSC	1956	Aeromagnetic Map, Gowganda, Ontario	GSC Map 284G	1:63 360
OGS	1979	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Maps 80372-80410	1:250 000
Gupta, V.K., Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map, Temagami-Englehart Area, NTS 31M/W, 41P/E, Timiskaming + 2AL Districts, Ontario	OGS Map P.2296	1:100 000
Gupta, V.K.	1981	Bouger Gravity and Generalized Geological Map of Gogama-Gowganda Area, NTS 41P, Timiskaming and Sudbury Districts, Ontario	OGS Map P.2481	1:100 000
Mansinha, L., Wilkinson, D.A.	1983	Grant No. 109: Interpretaion of Gravity Data from New Liskeard, NTS 31M/W, 41P/E, Ontario	OGS OFR 5440	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOPHYSICAL MAPS		
Symons, D.T.A. Stupavsky, M.	1983	Grant No. 143: Analysis of Aeromagnetic Anomalies over Algoman Type Iron Formations	OGS OFR 5476	
Redman, J.D., Strangway, D.W.	1986	Ontario Geoscience Research Grant Program, Grant No. 118, Surface Electromagnetic Mapping in Northern Ontario	OGS OFR 5615	
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Surveys and Mapping Branch, EMR	1976	Gowganda, Ontario	NTS 41P/10	1:50 000
Surveys and Mapping Branch, EMR	1976	Matachewan, Ontario	NTS 41P/15	1:50 000
Roed, M.A.	1980	Elk Lake Area, NTS 41P/NE, Timiskaming District, Ontario	NOEGTS 83	
Roed, M.A., Hallett, D.R.	1980	NOEGTS Data Base Map, Elk Lake, NTS 41P/NE, Timiskaming District, Ontario	OGS Map 5020	1:100 000
MNR	1982	Ontario Basic Map Sheets	MNR Maps 20 17 5200 52800 20 17 5300 52800 20 17 5200 52700 20 17 5300 52800	1:20 000
MNR		Chown Township Claim Map	MNR Plan No. M-213	1" = 40 ch.

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		MINERAL POTENTIAL		
Ried, J.A.	1943	Mineral Resources of the Timiskaming Silver-Cobalt Area, Ontario	ODM Bulletin No.134	
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet and part of Ville Marie Sheet, NTS 41P, 31M/W, Timiskaming and Sudbury Districts, Ontario	OGS Map P.1514	1:250 000
Kretschmar, U., Kretschmar, D.	1980	Talc, Magnesite and Asbestos Deposits in the Kirkland Lake-Timmins Area, NTS 31M, 32D, 41O, 41P, 42A, 42B, Timiskaming + 2AL Districts, Ontario	OGS OFR 5310	
Hunter & Assoc. Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area, NTS 31M/2 + 41P/E, Timiskaming + 2 Other Districts, Ontario	OGS OFR 5486	3 volumes
Kretschmar, U. Kretschmar, D.	1986	Talc, Magnesite and Asbestos Deposits in the Timmins-Kirkland Lake Area, Timiskaming and Cochrane Districts, Ontario	OGS Study 28	
Long, D.G.F., Leslie, C.A.	1986	The Placer Gold Potential of the Early Aphebian Gowganda Formation Along the Northern Margin of the Cobalt Embayment, Ontario, with Comments on Associated Concentrations of Silver and Copper	OGS OFR 5608	
		GEOCHEMICAL		
Fortescue, J.A.C.	1985	Preliminary Studies of Lake Sediment Geochemistry in an Area Northeast of Sudbury, NTS 41I/15, 41P/2, 7 + 10, Sudbury and Timiskaming Districts, Ontario	OGS Map 80 756	

GDIF FORM 80-9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS & MAPS		
Parks, W.A.	1907	The Geology of a District from Lake Timiskaming Northward	*GSC Summary Report 1904, vol. XVI, pt. A	pp.198-225
Collins, W.H.	1909	Preliminary Report on the Gowganda Mining Division, District of Nipissing, Ontario	*GSC Separate Report 1075 *GSC Map 1076	 1:63 360
Collins, W.H.	1914	The Geology of the Gowganda Mining Division	*GSC Memoir 33 *GSC Map 64A	 1:63 360
Burrows, A.G.	1926	Gowganda Silver Area (4th Report Revised), Timiskaming District, Ontario	*ODM AR, 1926, vol. 35, pt. 3,	pp. 1-61
Burrows, A.G.	1926		*ODM Map 35d	1:31 680
Todd, E.W.	1926	Gowganda Vein Minerals, Timiskaming Mining District, Ontario.	*ODM AR, 1926, vol. 35, pt. 3	pp. 62-78
Moore .E.S.	1956	Geology of the Miller Lake Portion of the Gowganda Silver Area, Timiskaming District, Ontario	ODM AR, 1955, vol. 64, pt. 5	
Moore, E.S.	1956	Gowganda Silver Area, District of Timiskaming, Ontario	ODM Map 1955-3	1:31 680
Savage, W.S., Fenwick, K.G.	1962	Gogama Sheet, District of Sudbury and Timiskaming, Ontario	ODM Map P.151	1:126 720
Savage, W.S., Thomson, R., Fenwick, K.G.	1962	Elk Lake-New Liskeard Sheet, District of Timiskaming, Ontario	ODM Map P.159	1:31 680
Mackean, B.E.	1967	Geology of the Elk Lake Area, District of Timiskaming, Ontario	ODM OFR 5006	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS & MAPS		
Mackean, B.E., McIlwaine, W.H.	1967	Chown Township, District of Timiskaming, Ontario	ODM Map P.310	1:15 840
Mackean, B.E.	1968	Geology of the Elk Lake Area, District of Timiskaming, Ontario	ODM GR 62	
Mackean, B.E.	1968	Chown and Lawson Townships, Timiskaming District, Ontario	ODM Map 2150	1:31 680
Legun, A.	1984	Huronian Stratigraphy and Sedimentation in the Cobalt Area, NTS 31M/W + 41P, Ontario	OGS OFR 5508	
Owsiacki, L., Anderson, D.P.	1987	Cobalt Resident Geologist's Area Northeastern Region; in Report of Activities, 1987, Regional and Resident Geologists, edited by C.R. Kustra, Ontario Geological Survey	MP 138	pp.285-305
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
		No data available as of November 15, 1988.		
		* Out of Print		

NOTES AND ADDENDA

On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

No present or past producers.

The township was closed to staking in 1978 due to the Bear Island Indian Caution.

AIR PHOTOS - on File in Cobalt

1"=¼ mile - 1959 complete
- 1946 - strip 100
- 1978-1 - strip 4729

GDIF FORM NO.10

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and Mines

Mine
Mine
Divis

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 497

(Map 1 of 2)

CHOWN TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

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(Map 1 of 2)

CHOWN TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

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(Map 1 of 2)

CHOWN TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

Sydney

Cr

Wilbur

L

Cr.

Longpoint

Lake

4

3

1,2

EXPLORATION DATA FILE AREAS

■ /① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area of exploration

□ ★ File covers whole township or area

(Map 1 of 2)

CHOWN TOWNSHIP

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Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

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EXPLORATION DATA FILE AREAS

■ /① \⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area of exploration

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TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ ◆³ — Geochemical sample site, with reference number
- ■ ◆³ — Area of geochemical sampling, with reference number
- ☐ ✳² — Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☐ AM — Airborne magnetic anomaly
- ☐ — Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ — Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ — Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ ARA — Airborne radiometric anomaly
- ☐ M — Ground magnetic anomaly
- ☐ VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly

MISCELLANEOUS DATA

- ☐ — Trenching, pit
- ☐ — Rock quarry

Sydney Cr.
Eagle L.
Mooseheart L.
Sydney Cr.
Wilbur L.
Moosecall L.
Cr.
Longpoint

Ministry of Northern Development and Mines

Ontario

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 497

(Map 2 of 2)

CHOWN TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ☐ cp A. — Mineral occurrence at surface, with reference letter
- ☐ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ☐ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ cp A. — Mineralized float with reference letter
- ☐ A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ☐ ●² — Location of single drillhole, with reference number
- ☐ ◉² — Location of closely spaced group of drillholes, with reference number

GEOPHYSICAL ANOMALIES

- ☐ -AM- Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
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- ☐ -IP- Induced polarization anomaly
- ☐ -SP- Self potential anomaly
- ☐ -AFMAG- Audio-frequency magnetic anomaly (total intensity)
- ☐ -R- Resistivity anomaly
- ☐ -GR- Gravity anomaly

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐ Rock quarry
- ☐ Sand and/or gravel pit
- ☐

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

CHOWN TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

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- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- 2 — Location of single drillhole, with reference number
- 2 — Location of closely spaced group of drillholes, with reference number
- ?2 — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area with reference number
- 2 — Property with drillholes which have not been plotted on map, with reference number
- 2 — Reverse circulation drillhole; churn drilling, with reference number

Sydney

Cr

Wilbur

L.

Longpoint

Lake